Pre-amplified/5V Excitation/Gauge XFPN,XFGN-6 Data sheet

■Features

- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Surface mount package (XFGN)

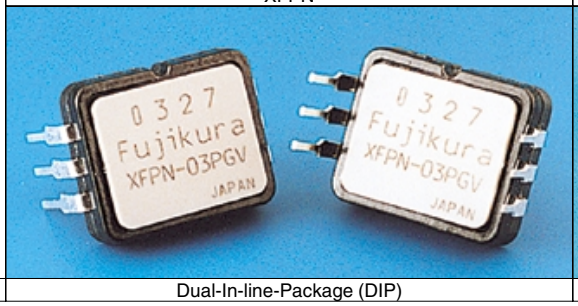
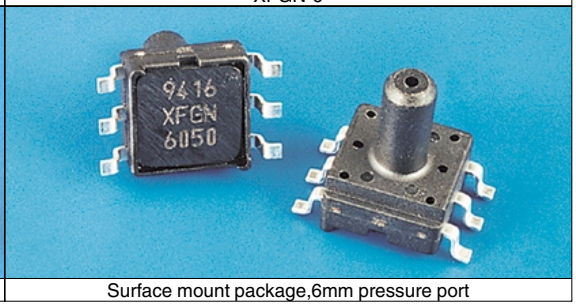
■Applications

- Non-Invasive Blood Pressure(NIBP)monitor for home health care
- Vacuum cleaner
- Washing machine

■Part number for ordering

XFGN - 6 025KP G S R

- Model: XFPN / XFGN
- Length of the pressure port (XFGN only): 6 : 6mm
- Rated pressure (Pa)
- Pressure type: G : Gauge (Positive pressure); GV : Gauge (Negative pressure)
- Terminal leads configuration: No mark : DIP (XFPN); S : Surface mount package (XFGN)
- Terminal leads direction (See Outline Diagram): No mark : ; R :

Pressure type	Gauge pressure	
Model	XFPN	XFGN-6
		
Package configuration	Dual-In-line-Package (DIP)	Surface mount package,6mm pressure port

Measurable pressure range (kPa)	Part number for ordering		
0～—24.5	XFPN-03KPGV	XFPN-03KPGVR	XFGN-603KPGVSR
0～—100	XFPN-100KPGV	XFPN-100KPGVR	XFGN-6100KPGVSR
0～25	XFPN-025KPG	XFPN-025KPGR	XFGN-6025KPGSR
0～50	XFPN-050KPG	XFPN-050KPGR	XFGN-6050KPGSR
0～100	XFPN-100KPG	XFPN-100KPGR	XFGN-6100KPGSR
0～200	XFPN-200KPG	XFPN-200KPGR	XFGN-6200KPGSR

■Specifications

Model/Rated pressure	03KPGV	100KPGV	025KPG	050KPG	100KPG	200KPG	Unit
Recommended operating conditions							
Pressure type	Gauge pressure						—
Rated pressure	—24.5	—100	25	50	100	200	kPa
	—0.255	—1.020	0.255	1.020	1.020	2.040	kg/cm²
Pressure media	Non-corrosive gas						—
Excitation voltage	5±0.25						VDC
Absolute maximum rating							
Maximum load pressure	Twice of rated pressure						—
Maximum excitation voltage	8						VDC
Operating temperature	—10～80						℃
Storage temperature	—20～100						℃
Operating humidity	30～80 (No dew condensation)						%RH
Electric performances/characteristics (Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25℃)							
Current consumption	less than 10						mA
Output impedance	less than 10						Ω
Source current	less than 0.2						mA
Sink current	less than 2						mA
Mechanical response time	2 (For the reference)						msec
Full scale span voltage	4.0						V
Offset voltage ※	0.5±0.1						V
Full scale span voltage ※	4.5±0.1						V
Accuracy ※	±5.0						%FS/0～50℃

Note ; ※Excluding input voltage error.

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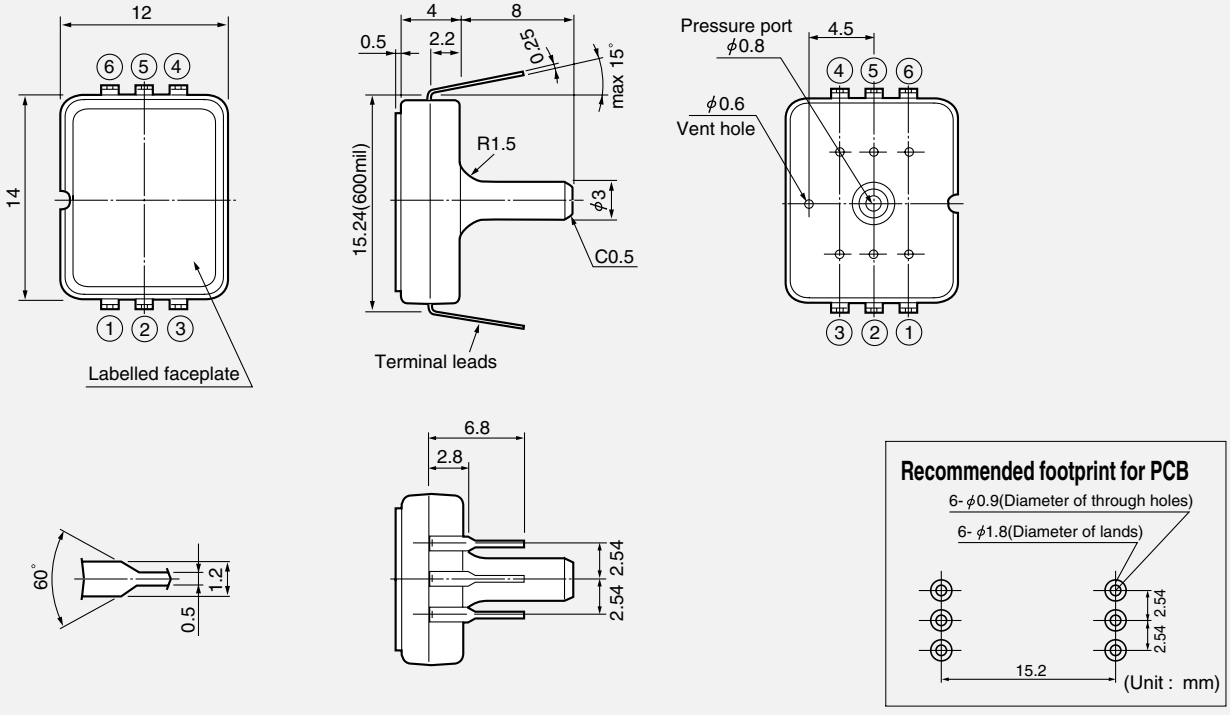
■Outline dimensions■

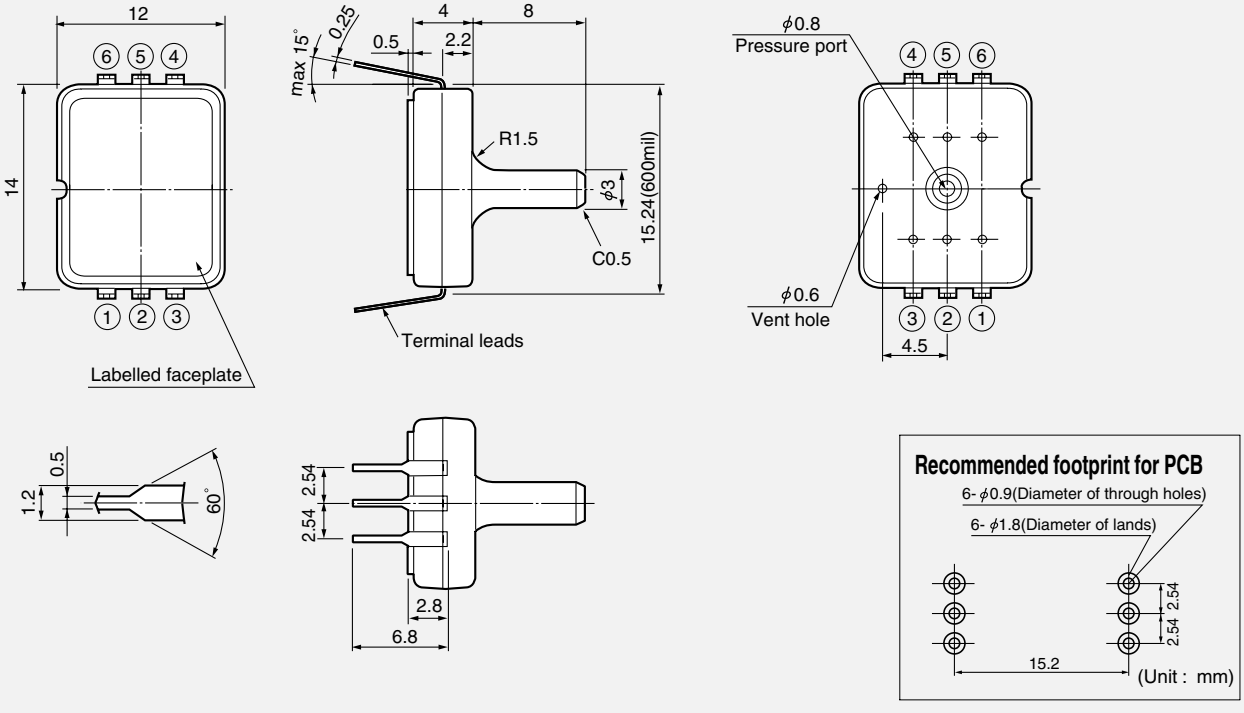
Unit : mm

XFPN



Unit : mm

XFPN-R



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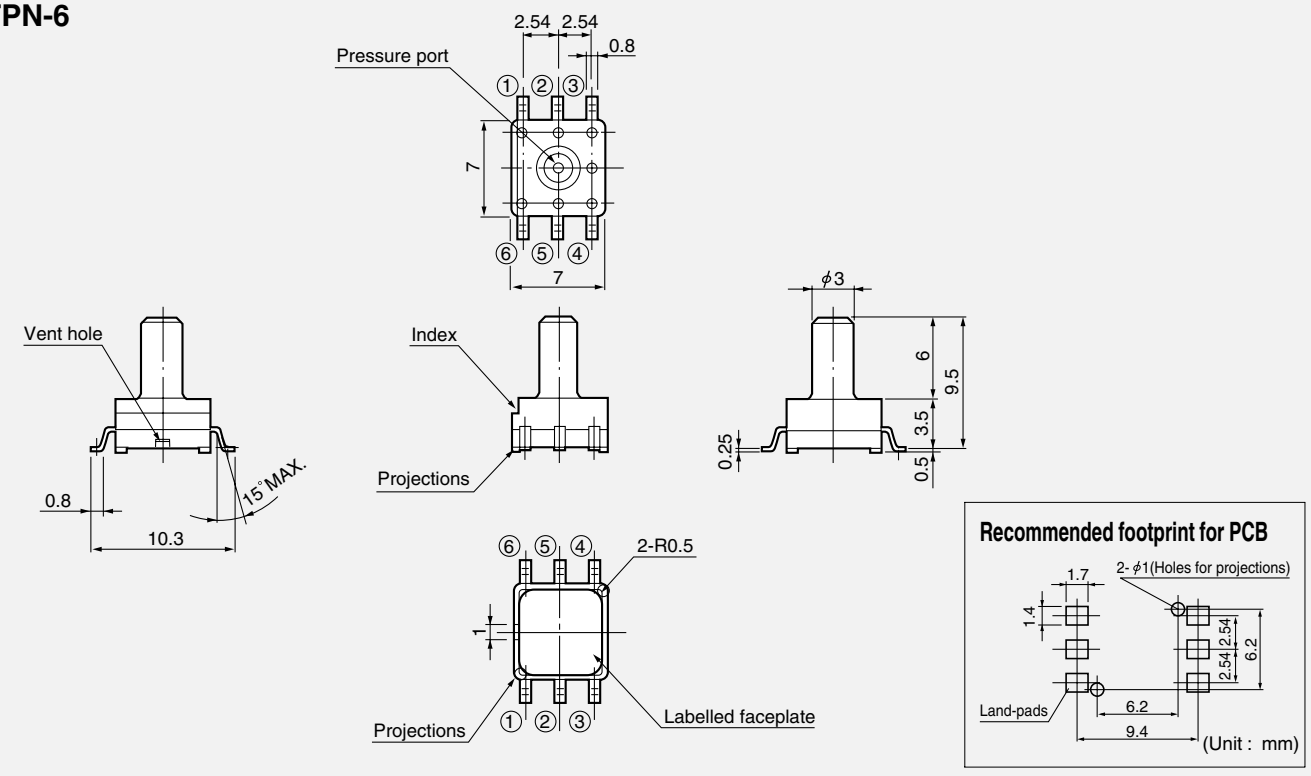
■Outline dimensions■

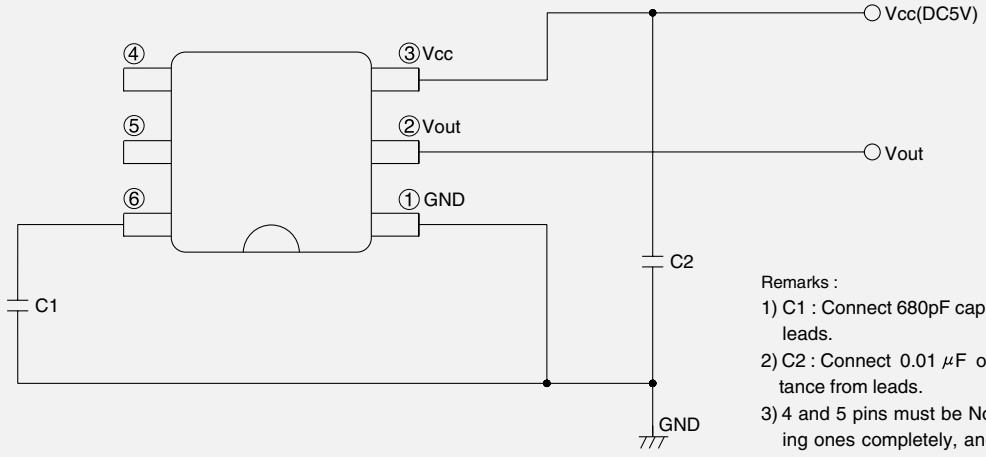
Unit : mm

XFPN-6



■Connection diagram■

XFPN, XFGN-6



Remarks :
1) C1 : Connect 680pF capacitor within 2cm distance from leads.
2) C2 : Connect 0.01 μF or more capacitor within 2cm distance from leads.
3) 4 and 5 pins must be No Connection. Open them as floating ones completely, and do NOT connect to other line or each other.

Note ; Please read instruction “Notes” before using the sensor.
Fujikura reserves the right to change specifications without notice.

Fujikura Ltd.
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